

Name

Home Room

Date

What is Energy?

Energy and Work

1. Energy-

2. When one object does work on another-

3. Energy is expressed in-

Kinetic Energy

1.-

2. All moving objects-

3. Like all forms of energy-

4. Example:

5. Formula-

6. The faster something is moving-

7. The greater the mass of a moving object-

8. Speed has a greater effect-

Potential Energy

1.-

2. Example:

3. Gravitational Potential Energy

Three Examples:

4. Calculating Gravitational Potential Energy

Formula:

So gravitational potential energy is equal-

5. Height Above What?

Height you use in calculating potential energy-

Mechanical Energy

1.-

2. Both Kinetic and Potential Energy-

3. Formula:

4. Example:

Other Forms of Energy

1. Thermal Energy-

The Faster the particles move-

Also depends on-

Example:

2. Chemical Energy-

It is a form of-

3. Electrical Energy-

It can be thought of as-

4. Sound Energy – is caused by-

5. Light Energy-

Unlike sound it can-

6. Nuclear Energy-

Comes from a tiny-

Fusion- hydrogen nuclei-

Example:

Fission- nucleus of a heavy element-

Example: